

## Midterm 2 Practice Questions

**Which of the following items is NOT part of the intrinsic conduction system of the heart?**

- A) atrioventricular (AV) node
- B) bundle branches
- C) atrioventricular (AV) valve
- D) sinoatrial (SA) node
- E) All of the above
- F) None of the above

**TRUE OR FALSE:** When released in large quantities, thyroxine, a thyroid gland hormone, causes a sustained increase in heart rate.

**The second messenger cAMP is:**

- A) Required for kinase inhibition.
- B) Closes calcium channels
- C) Is released from the ER.
- D) A and B
- E) None of the above \*it activates/opens calcium channels

**TRUE OR FALSE:** Autonomic regulation of heart rate is via two reflex centers found in the mediastinum.

**TRUE OR FALSE:** Cardiac Cells have more endoplasmic reticulum than skeletal muscle cells (has more mitochondria)

**TRUE OR FALSE:** Gap junctions are found both on the mitochondria inner membrane and the mitochondrial outer membrane. (gap junctions are between cells, not on mitochondria)

**TRUE OR FALSE:** Cardiac muscle has more mitochondria and depends less on a continual supply of oxygen than does skeletal muscle. (2nd part is false, more mitochondria therefore needs more O<sub>2</sub>)

**The parietal pericardium \_\_\_\_\_.**

- A) lines the external surface of the fibrous pericardium (only if it was internal)
- B) is also called the epicardium
- C) is separated from the fibrous pericardium by limited serous fluid
- D) is found within the pericardial cavities.
- E) None of the above
- F) All of the above

**Which of the following is true of the atria**

- A) They don't contract
- B) The two atria contract in sequence

- C) The right atria receives blood from the lungs
- D) They are receiving chambers
- E) None of the above
- F) All of the above

**What is true of the Purkinje Fibres?**

- A) They hold the AV valve closed after contraction
- B) They hold the AV valve open after contraction
- C) They are part of the intrinsic conduction system
- D) They are attached to papillary muscles